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1. 16.1-FH1: Technological Enhancements to Improve and Expand Casual Carpooling Systems

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

Traditional carpooling declined in the United States from a 20% mode share in 1980 to 13% in 1990, and then to 10% in 2004, after which it has remained stable at this low level. A variation on the traditional carpool, casual carpooling, occurs in three U.S. metropolitan areas (Washington, D.C., San Francisco, and Houston) and may be an important strategy to help reverse this downward trend. While ...

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2. 16.1-FH2: Connected Bicycle: Communicating with Vehicles and Infrastructure

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

The connected vehicles program is a multimodal U.S. DOT initiative that applies the potentially transformative capabilities of wireless technology to make surface transportation safer, smarter, and greener. One of the emerging technologies for vehicle-to-infrastructure (V2I) and vehicle-tovehicle (V2V) communication is Dedicated Short Range Communications (DSRC). DSRC can support communication bet ...

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3. 16.1-FT1: Pedestrian and Cyclist Detection Devices for Transit Buses

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

Data are limited about the full extent of bicycle and pedestrian use, but the evidence indicates that the use of these modes is on the rise. Data from the National Household Travel Survey (NHTS) from 2001 and 2009, a period during which bicyclist and pedestrian fatalities was decreasing, identified a slight increase in walking, and almost no change in the number of people bicycling. Although NHTS ...

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4. DTRA152-001: Radiation Hardened Optoelectronics for Optical Interconnects

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

With the dominance of parallel processing, the rise integrated “system on chip” (SOC) architecture, and the continuing need to handle more data more quickly, traditional electronic interconnects are reaching their practical limits. Optical data transfer has already replaced electronic data transfer in long distance applications (km) and shorter distance high bandwidth applications (m-cm) due t ...

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5. DTRA152-002: Materials Development for Enhanced X-ray Detection of Dynamic Material Events Under Fast Loading Rates

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Defense Threat Reduction Agency’s Basic Research Program, Thrust Area 4 – Science to Defeat WMD (weapons of mass destruction), has been supporting research of hard and deeply buried targets including penetration of concretes and geological materials. With new experimental facilities that now couple high intensity and high flux x-ray capabilities with impact drivers (e.g. lasers, gas guns, ...

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6. DTRA152-003: High Performance Computing (HPC) Application Performance Prediction & Profiling Tools

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DTRA uses High Fidelity computer codes to investigate weapon effects phenomenology and techniques for countering WMD. End to end High Fidelity simulations in support of the DTRA Agent Defeat Warfighter Capability will require calculations including multiple phenomena that occur in vastly different time scales (µs to hours). The resulting code run times will be prohibitively long without optimizat ...

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7. DTRA152-004: Instrumentation for Characterization of Fireballs, Hot Gases, & Aerosols from Defeat of Targets Containing Biological and Chemical Agents

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Testing of methods to defeat chemical and biological agents often requires scaled experiments involving rapid combustion of bio- and chemical- agent simulants. This effort will focus on the development of next-generation instrumentation for effective characterization of physical and chemical processes occurring during rapid combustion in the expanding fireball, to provide quantitative and qualitat ...

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8. DTRA152-005: Joint Learning of Text-based Categories

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

J9CXQ has the challenge of identifying and extracting evidential information from a complex and ambiguous text. An automated extraction system is being developed that will detect and characterize categories of entities, relations, events, and topics. The extracted information will be stored in a knowledge base that will enable automatically finding patterns and searching for critical information. ...

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9. DTRA152-006: Island-mode Enhancement Strategies and Methodologies for Defense Critical Infrastructure

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The defense critical infrastructure (DCI) is the composite of DoD and non-DoD assets essential to project, support, and sustain military forces and operations worldwide. The DCI includes, but is not limited to, elements such as military bases, ballistic missile defense installations, radar sites, etc. An electromagnetic (EM) attack (nuclear electromagnetic pulse [EMP] or non-nuclear EMP [e.g., hig ...

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10. DTRA152-007: Multi-mode Handheld Radioisotope Identification Instrument

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DTRA is seeking development of handheld radioisotope identification instrumentation with extended capabilities for identifying and categorizing isotopic sources. Passive measurements of gamma-ray signatures can be adversely compromised by shielding around the source. Neutrons are an additional signature that may either substantiate a finding or,

more importantly, elucidate an anomaly that may aris ...

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